

1337 S. 46th Street Building 201

Richmond, CA 94804

Subject: Analytical Testing Results - Project R04S85

SDG: 04258B

From: Brenda Bettencourt, Director

**EPA Region 9 Laboratory** 

PMD-2

To: Chris Lichens

**Site Cleanup Section 4** 

SFD-7-4

Attached are the results from the analysis of samples from the **Omega Chemical OU2 September 2004 Sampling** project. These data have been reviewed in accordance with EPA Region 9 Laboratory policy.

A full documentation package for these data, including raw data and sample custody documentation, is on file at the EPA Region 9 Laboratory. If you would like to request additional review and/or validation of the data, please contact Vance Fong at the Region 9 Quality Assurance Office.

If you have any questions, please ask for Richard Bauer, the Lab Project Manager at (510)412-2300.

#### Analyses included in this report:

Alkalinity Carbon, Total Organic Nitrogen, Total Kjeldahl Phosphorus, Total Anions

Nitrogen, Ammonia Perchlorate



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens **Site Cleanup Section 4 SDG:** 04258B

**Reported:** 11/04/04 11:47 Project Number: R04S85 75 Hawthorne Street San Francisco CA, 94105

Project: Omega Chemical OU2 September 2004

Sampling

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Collected	Date Received
OC2-MW4A-W-0-58	0409032-01	Water	09/13/04 10:45	09/14/04 09:40
OC2-MW4B-W-0-59	0409032-02	Water	09/13/04 12:45	09/14/04 09:40
OC2-MW4B-W-1-60	0409032-03	Water	09/13/04 12:45	09/14/04 09:40
OC2-MW4C-W-0-61	0409032-04	Water	09/13/04 14:30	09/14/04 09:40
OC2-MW1B-W-0-62	0409037-01	Water	09/14/04 08:15	09/15/04 10:27
OC2-MW1A-W-0-63	0409037-02	Water	09/14/04 08:50	09/15/04 10:27
OC2-MW2A-W-0-64	0409037-03	Water	09/14/04 09:55	09/15/04 10:23
OC2-MW6A-W-0-65	0409037-04	Water	09/14/04 11:10	09/15/04 10:23
OC2-MW5A-W-0-66	0409037-05	Water	09/14/04 12:30	09/15/04 10:23
OC2-MW9B-W-0-67	0409040-01	Water	09/15/04 08:45	09/16/04 09:52
OC2-MW8B-W-5-69	0409040-02	Water	09/15/04 09:45	09/16/04 09:52
OC2-MW8C-W-0-70	0409040-03	Water	09/15/04 10:40	09/16/04 09:52
OC2-MW8A-W-0-71	0409040-04	Water	09/15/04 11:30	09/16/04 09:52
OC2-MW8D-W-0-72	0409040-05	Water	09/15/04 12:30	09/16/04 09:52
OC2-MW7A-W-0-73	0409047-01	Water	09/16/04 08:00	09/17/04 09:51
OC2-MW7A-W-1-74	0409047-02	Water	09/16/04 08:00	09/17/04 09:5
OC2-MW3A-W-0-75	0409047-03	Water	09/16/04 09:00	09/17/04 09:5
OC2-MW10A-W-0-76	0409047-04	Water	09/16/04 10:00	09/17/04 09:51
OC2-MW11A-W-0-77	0409047-05	Water	09/16/04 10:45	09/17/04 09:51



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens **Site Cleanup Section 4 SDG:** 04258B

**Project Number:** R04S85 **Reported:** 11/04/04 11:47 75 Hawthorne Street San Francisco CA, 94105

Project: Omega Chemical OU2 September 2004

Sampling

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 0409032-01							Wate	r - Sampled: 09/13/04 10:
Sample ID: OC2-MW4A-W-0-58					Con	ventional Chen	nistry Paramet	ers by APHA/EPA Metho
Total Organic Carbon	ND	U	2.0	mg/L	B4J0026	10/05/04	10/05/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	U	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	3.2		2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10	"	B4I0092	09/22/04	09/22/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	"	"	"	SM2320/SOP560
Bicarbonate Alkalinity	450		10	"	"	"	"	SM2320/SOP560
Total Alkalinity	450		10	"	"	"	"	SM2320/SOP560
Fluoride	0.29		0.10	"	B4I0044	09/14/04	09/14/04	300.0/SOP 530
Chloride	66		10	"	"	"	09/14/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	1.0	"	"	"	"	300.0/SOP 530
Bromide	0.55		0.10	"	"	"	09/14/04	300.0/SOP 530
Nitrate as N	13		0.10	"	"	"	"	300.0/SOP 530
o-Phosphate, as P	ND	U	1.0	"	"	"	"	300.0/SOP 530
Sulfate	280		5.0	"	"	"	09/14/04	300.0/SOP 530
Lab ID: 0409032-02 Sample ID: OC2-MW4B-W-0-59					Con	ventional Chen		r - Sampled: 09/13/04 12:4
Total Organic Carbon	ND	U	2.0	mg/L	B4I0125	09/27/04	09/27/04	415.1/SOP 550
· ·	ND ND	U	0.30	mg/L	B4I0125	09/28/04	09/27/04	351.2/SOP590
Ammonia as N	ND ND	U	0.30	,,	B4I0126 B4I0158	09/28/04	10/01/04	351.2/SOP590 351.2/SOP592
Nitrogen, Total Kjeldahl Perchlorate	2.9	U	2.0	ug/L	B4J0023	10/05/04	10/01/04	314.0/SOP531
	ND	U	0.30	mg/L	B4I0159	09/30/04	10/03/04	365.4/SOP596
Phosphorus, Total Hydroxide Alkalinity	ND	U	10	mg/L	B4I0092	09/22/04	09/22/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	B-10072	"	"	SM2320/SOP560
Bicarbonate Alkalinity	450	C	10	"	"	,,	"	SM2320/SOP560
· ·	450		10	,,	"	,,	,,	SM2320/SOP560
Total Alkalinity Fluoride	0.32		0.10	,,	B4I0044	09/14/04	09/14/04	300.0/SOP 530
Chloride	73		10	,,	D-100-1-1	U)/14/04	09/14/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	1.0	,,	,,	,,	"	300.0/SOP 530
Bromide	0.51	ψ, υ	0.10	,,	"	,,	09/14/04	300.0/SOP 530
Nitrate as N	9.9		0.10	,,	,,	,,	"	300.0/SOP 530
o-Phosphate, as P	ND	U	1.0	,,	,,	,,	,,	300.0/SOP 530
Sulfate	430	C	5.0	"	"	"	09/14/04	300.0/SOP 530
Lab ID: 0409032-03								r - Sampled: 09/13/04 12:
Sample ID: OC2-MW4B-W-1-60					Con	ventional Chen	nistry Paramet	ers by APHA/EPA Metho
Total Organic Carbon	3.5		2.0	mg/L	B4I0125	09/27/04	09/27/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	$\mathbf{U}$	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	3.4		2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10	"	B4I0092	09/22/04	09/22/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	"	"	"	SM2320/SOP560



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris LichensSite Cleanup Section 4SDG: 04258B

Project Number: R04S85 75 Hawthorne Street Reported: 11/04/04 11:47

Project: Omega Chemical OU2 September 2004 San Francisco CA, 94105

Sampling

Sa	m	nl	ρ	R	ec	n)	lt
174	ш	IJ	C	1/	CD	u	ιu

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 0409032-03							Wate	er - Sampled: 09/13/04 12:45
Sample ID: OC2-MW4B-W-1-60							Al	kalinity by Method SM2320
Bicarbonate Alkalinity	450		10	mg/L	B4I0092	09/22/04	09/22/04	SM2320/SOP560
Total Alkalinity	450		10	"	"	"	"	SM2320/SOP560
Fluoride	0.27		0.10	"	B4I0044	09/14/04	09/14/04	300.0/SOP 530
Chloride	73		10	"	"	"	09/14/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	1.0	"	"	"	"	300.0/SOP 530
Bromide	0.48		0.10	"	"	"	09/14/04	300.0/SOP 530
Nitrate as N	9.9		0.10	"	"	"	"	300.0/SOP 530
o-Phosphate, as P	ND	U	1.0	"	"	"	"	300.0/SOP 530
Sulfate	430		5.0	"	"	"	09/14/04	300.0/SOP 530
Lab ID: 0409032-04							Wate	er - Sampled: 09/13/04 14:30
Sample ID: OC2-MW4C-W-0-61					Con	ventional Chen	nistry Paramet	ers by APHA/EPA Methods
Total Organic Carbon	2.1		2.0	mg/L	B4I0125	09/27/04	09/27/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	U	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	3.5		2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	$\mathbf{U}$	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10	"	B4I0092	09/22/04	09/22/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	"	"	"	SM2320/SOP560
Bicarbonate Alkalinity	370		10	"	"	"	"	SM2320/SOP560
Total Alkalinity	370		10	"	"	"	"	SM2320/SOP560
Fluoride	0.30		0.10	"	B4I0044	09/14/04	09/14/04	300.0/SOP 530
Chloride	72		5.0	"	"	"	09/14/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	0.50	"	"	"	"	300.0/SOP 530
Bromide	0.77	<b>C</b> , -	0.10	"	"	"	09/14/04	300.0/SOP 530
Nitrate as N	10		0.10	"	"	"	"	300.0/SOP 530
o-Phosphate, as P	ND	U	1.0	"	"	"	"	300.0/SOP 530
Sulfate	240	C	2.5	"	"	"	09/14/04	300.0/SOP 530
Lab ID: 0409037-01							Wate	er - Sampled: 09/14/04 08:15
Sample ID: OC2-MW1B-W-0-62					Con	ventional Chen	nistry Paramet	ers by APHA/EPA Methods
Total Organic Carbon	2.0		2.0	mg/L	B4J0026	10/05/04	10/05/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	U	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	3.8		2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	$\mathbf{U}$	10	"	B4I0092	09/22/04	09/22/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	"	"	"	SM2320/SOP560
Bicarbonate Alkalinity	350		10	"	"	"	"	SM2320/SOP560
Total Alkalinity	350		10	"	"	"	"	SM2320/SOP560
Fluoride	0.32		0.10	"	B4I0050	09/15/04	09/15/04	300.0/SOP 530
Chloride	73		5.0	"	"	"	09/15/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	0.50	"	"	"	"	300.0/SOP 530
Bromide	0.40	2 /	0.10	"	"	"	09/15/04	300.0/SOP 530
Nitrate as N	11		0.10	"	"	"	"	300.0/SOP 530



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens Site Cleanup Section 4 **SDG:** 04258B

Project Number: R04S85 **Reported:** 11/04/04 11:47 75 Hawthorne Street San Francisco CA, 94105

Project: Omega Chemical OU2 September 2004

Sampling

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 0409037-01							Wate	er - Sampled: 09/14/04 08:1
Sample ID: OC2-MW1B-W-0-62							A	nions by EPA Method 300
o-Phosphate, as P	ND	U	1.0	mg/L	B4I0050	09/15/04	09/15/04	300.0/SOP 530
Sulfate	170		2.5	"	"	"	09/15/04	300.0/SOP 530
Lab ID: 0409037-02							Wate	er - Sampled: 09/14/04 08:5
Sample ID: OC2-MW1A-W-0-63					Con	ventional Chen	nistry Paramet	ers by APHA/EPA Method
Гotal Organic Carbon	5.2		2.0	mg/L	B4I0125	09/27/04	09/27/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	U	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	5.2		2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10	"	B4I0092	09/22/04	09/22/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	"	"	"	SM2320/SOP560
Bicarbonate Alkalinity	420		10	"	"	"	"	SM2320/SOP560
Гotal Alkalinity	420		10	"	"	"	"	SM2320/SOP560
Fluoride	0.34		0.10	"	B4I0050	09/15/04	09/15/04	300.0/SOP 530
Chloride	110		10	"	"	"	09/15/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	1.0	"	"	"	"	300.0/SOP 530
Bromide	0.48	ζ,,	0.10	"	"	"	09/15/04	300.0/SOP 530
Nitrate as N	18		0.10	"	"	"	"	300.0/SOP 530
p-Phosphate, as P	ND	U	1.0	"	"		"	300.0/SOP 530
Sulfate	190	C	5.0	"	"	"	09/15/04	300.0/SOP 530
Lab ID: 0409037-03							Wate	er - Sampled: 09/14/04 09:5
Entro ID.					Com	zentional Chen		ers by APHA/EPA Method
		**	• •	7			-	-
Total Organic Carbon	ND	U	2.0	mg/L	B4I0125	09/27/04	09/27/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	U	0.30		B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	1.9	C1, J	2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10	"	B4I0092	09/22/04	09/22/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10		"	,,		SM2320/SOP560
Bicarbonate Alkalinity	470		10	"			"	SM2320/SOP560
Γotal Alkalinity	470		10	"	"	"	"	SM2320/SOP560
Fluoride	0.25		0.10	"	B4I0050	09/15/04	09/15/04	300.0/SOP 530
Chloride	71		10	"	"	"	09/15/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	1.0	"	"	"	"	300.0/SOP 530
Bromide	0.52		0.10	"	"	"	09/15/04	300.0/SOP 530
Nitrate as N	11		0.10	"	"	"	"	300.0/SOP 530
o-Phosphate, as P	ND	U	1.0	"	"	"	"	300.0/SOP 530
Sulfate	270		5.0	"	"	"	09/15/04	300.0/SOP 530
Lab ID: 0409037-04							Wate	er - Sampled: 09/14/04 11:1
Sample ID: OC2-MW6A-W-0-65					Con	ventional Chen	nistry Paramet	ers by APHA/EPA Method
Total Organic Carbon	ND	U	2.0	mg/L	B4J0026	10/05/04	10/05/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens **Site Cleanup Section 4 SDG:** 04258B

**Project Number:** R04S85 **Reported:** 11/04/04 11:47 75 Hawthorne Street San Francisco CA, 94105

Project: Omega Chemical OU2 September 2004

Sampling

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 0409037-04							Wate	r - Sampled: 09/14/04 11:
Sample ID: OC2-MW6A-W-0-65					Con	ventional Chen	nistry Paramet	ers by APHA/EPA Metho
Nitrogen, Total Kjeldahl	ND	U	0.30	mg/L	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	4.0		2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10	"	B4I0092	09/22/04	09/22/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	"	"	"	SM2320/SOP560
Bicarbonate Alkalinity	490		10	"	"	"	"	SM2320/SOP560
Fotal Alkalinity	490		10	"	"	"	"	SM2320/SOP560
Fluoride	0.29		0.10	"	B4I0050	09/15/04	09/15/04	300.0/SOP 530
Chloride	120		10	"	"	"	09/15/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	1.0	"	"	"	"	300.0/SOP 530
Bromide	0.56		0.10	"	"	"	09/15/04	300.0/SOP 530
Nitrate as N	17		0.10	"	"	"	"	300.0/SOP 530
o-Phosphate, as P	ND	$\mathbf{U}$	1.0	"	"	"	"	300.0/SOP 530
Sulfate	270		5.0	"	"	"	09/15/04	300.0/SOP 530
Lab ID: 0409037-05							Wate	r - Sampled: 09/14/04 12:
Sample ID: OC2-MW5A-W-0-66					Con	ventional Chen	nistry Paramet	ers by APHA/EPA Method
Total Organic Carbon	ND	U	2.0	mg/L	B4J0026	10/05/04	10/05/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	U	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	3.0		2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10	"	B4I0092	09/22/04	09/22/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	"	"	"	SM2320/SOP560
Bicarbonate Alkalinity	440		10	"	"	"	"	SM2320/SOP560
Total Alkalinity	440		10	"	"	"	"	SM2320/SOP560
Fluoride	0.28		0.10	"	B4I0050	09/15/04	09/15/04	300.0/SOP 530
Chloride	110		10	"	"	"	09/15/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	1.0	"	"	"	"	300.0/SOP 530
Bromide	0.85	,	0.10	"	"	"	09/15/04	300.0/SOP 530
Nitrate as N	20		0.10	"	"	"	"	300.0/SOP 530
o-Phosphate, as P	ND	U	1.0	"	"	"	"	300.0/SOP 530
Sulfate	310		5.0	"	"	"	09/15/04	300.0/SOP 530
Lab ID: 0409040-01							Wate	r - Sampled: 09/15/04 08:4
Sample ID: OC2-MW9B-W-0-67					Con	ventional Chen	nistry Paramet	ers by APHA/EPA Metho
Total Organic Carbon	ND	U	2.0	mg/L	B4J0026	10/05/04	10/05/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	U	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	4.1		2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10	"	B4I0127	09/27/04	09/27/04	SM2320/SOP560
Carbonate Alkalinity	ND	$\mathbf{U}$	10	"	"	"	"	SM2320/SOP560
Bicarbonate Alkalinity	410		10	"	"	"	"	SM2320/SOP560
Total Alkalinity	410		10	"	,,	"	"	SM2320/SOP560



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens **Site Cleanup Section 4 SDG:** 04258B

**Reported:** 11/04/04 11:47 Project Number: R04S85 75 Hawthorne Street San Francisco CA, 94105

Project: Omega Chemical OU2 September 2004

Sampling

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 0409040-01							Wate	er - Sampled: 09/15/04 08:45
Sample ID: OC2-MW9B-W-0-67							A	nions by EPA Method 300.0
Fluoride	0.27		0.10	mg/L	B4I0052	09/16/04	09/16/04	300.0/SOP 530
Chloride	96		10	"	"	"	09/16/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	1.0	"	"	"	"	300.0/SOP 530
Bromide	0.36		0.10	"	"	"	09/16/04	300.0/SOP 530
Nitrate as N	11		0.10	"	"	"	"	300.0/SOP 530
o-Phosphate, as P	ND	U	1.0	"	"	"	"	300.0/SOP 530
Sulfate	440		5.0	"	"	"	09/16/04	300.0/SOP 530
Lab ID: 0409040-02							Wate	er - Sampled: 09/15/04 09:45
Sample ID: OC2-MW8B-W-5-69					Con	ventional Chen	nistry Paramet	ers by APHA/EPA Methods
Total Organic Carbon	ND	J, Q4, U	2.0	mg/L	B4I0125	09/27/04	09/27/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	U	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	4.3		2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10	"	B4I0127	09/27/04	09/27/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	"	"	"	SM2320/SOP560
Bicarbonate Alkalinity	380		10	"	"	"	"	SM2320/SOP560
Total Alkalinity	380		10	"	"	"	"	SM2320/SOP560
Fluoride	0.28		0.10	"	B4I0052	09/16/04	09/16/04	300.0/SOP 530
Chloride	110		10	"	"	"	09/16/04	300.0/SOP 530
Nitrite as N	ND	Q9, U	1.0	"	"	"	"	300.0/SOP 530
Bromide	0.35		0.10	"	"	"	09/16/04	300.0/SOP 530
Nitrate as N	12		0.10	"	"	"	"	300.0/SOP 530
o-Phosphate, as P	ND	U	1.0	"	"	"	"	300.0/SOP 530
Sulfate	440		5.0	"	"	"	09/16/04	300.0/SOP 530
Lab ID: 0409040-03							Wate	er - Sampled: 09/15/04 10:40
Sample ID: OC2-MW8C-W-0-70					Con	ventional Chen	nistry Paramet	ers by APHA/EPA Methods
Total Organic Carbon	ND	U	2.0	mg/L	B4I0125	09/27/04	09/27/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	0.16	C1, J	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	4.1		2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10	"	B4I0127	09/27/04	09/27/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	"	"	"	SM2320/SOP560
Bicarbonate Alkalinity	390		10	"	"	"	"	SM2320/SOP560
Total Alkalinity	390		10	"	"	"	"	SM2320/SOP560
Fluoride	0.29		0.10	"	B4I0052	09/16/04	09/16/04	300.0/SOP 530
Chloride	110		10	"	"	"	09/16/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	1.0	"	"	"	"	300.0/SOP 530
Bromide	0.36		0.10	"	"	"	09/16/04	300.0/SOP 530
Nitrate as N	11		0.10	"	"	"	"	300.0/SOP 530
o-Phosphate, as P	ND	U	1.0	"	"	"	"	300.0/SOP 530
Sulfate	450		5.0	"	"	"	09/16/04	300.0/SOP 530



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens **Site Cleanup Section 4 SDG:** 04258B

**Project Number:** R04S85 **Reported:** 11/04/04 11:47 75 Hawthorne Street San Francisco CA, 94105

Project: Omega Chemical OU2 September 2004

Sampling

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 0409040-04							Wate	er - Sampled: 09/15/04 11:3
Sample ID: OC2-MW8A-W-0-71					Conv	entional Chen	nistry Paramet	ers by APHA/EPA Method
Total Organic Carbon	ND	U	2.0	mg/L	B4J0026	10/05/04	10/05/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	U	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	5.7		2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10	"	B4I0127	09/27/04	09/27/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	"	"	"	SM2320/SOP560
Bicarbonate Alkalinity	460	C	10	"	"	"	"	SM2320/SOP560
Total Alkalinity	460		10	"	"	"	"	SM2320/SOP560
Fluoride	0.29		0.10	"	B4I0052	09/16/04	09/16/04	300.0/SOP 530
	140		10	"	D410032	U9/10/U4	09/16/04	300.0/SOP 530
Chloride		O0. II		,,	,,	,,	09/10/04 "	
Nitrite as N	ND	<b>Q9,</b> U	1.0	,,	"	,,		300.0/SOP 530
Bromide	0.58		0.10	,,	,,	"	09/16/04	300.0/SOP 530
Nitrate as N	15		0.10	,,	,,	"		300.0/SOP 530
o-Phosphate, as P	ND	U	1.0				"	300.0/SOP 530
Sulfate	360		5.0	"	"	"	09/16/04	300.0/SOP 530
Lab ID: 0409040-05							Wate	er - Sampled: 09/15/04 12:30
Sample ID: OC2-MW8D-W-0-72					Conv	entional Chen	nistry Paramet	ers by APHA/EPA Method
Total Organic Carbon	1.5	C1, J	2.0	mg/L	B4I0125	09/27/04	09/27/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	U	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	2.0		2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10	"	B4I0127	09/27/04	09/27/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	"	"	"	SM2320/SOP560
Bicarbonate Alkalinity	240	C	10	"	"	"	"	SM2320/SOP560
Total Alkalinity	240		10	"	"	"	"	SM2320/SOP560
Fluoride	0.43		0.10	,,	B4I0052	09/16/04	09/16/04	300.0/SOP 530
Chloride	71		5.0	"	"	"	09/16/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	0.50	"	"	"	"	300.0/SOP 530
Bromide	0.26	ψ, υ	0.10	"	"	"	09/16/04	300.0/SOP 530
	7.1		0.10	"	,,	"	"	
Nitrate as N		U		,,	"	"	"	300.0/SOP 530 300.0/SOP 530
o-Phosphate, as P	ND 260	U	1.0	"	"	"		
Sulfate	260		5.0		-	-	09/16/04	300.0/SOP 530
Lab ID: 0409047-01								er - Sampled: 09/16/04 08:00
Sample ID: OC2-MW7A-W-0-73					Conv	entional Chen	nistry Paramet	ers by APHA/EPA Method
Total Organic Carbon	4.7		2.0	mg/L	B4I0125	09/27/04	09/27/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	U	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	7.4		2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10	"	B4I0127	09/27/04	09/27/04	SM2320/SOP560



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens **Site Cleanup Section 4 SDG:** 04258B

Project Number: R04S85 **Reported:** 11/04/04 11:47 75 Hawthorne Street San Francisco CA, 94105

Project: Omega Chemical OU2 September 2004

Sampling

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 0409047-01							Wate	er - Sampled: 09/16/04 08:0
Sample ID: OC2-MW7A-W-0-73							Al	kalinity by Method SM232
Carbonate Alkalinity	ND	U	10	mg/L	B4I0127	09/27/04	09/27/04	SM2320/SOP560
Bicarbonate Alkalinity	420		10	"	"	"	"	SM2320/SOP560
Total Alkalinity	420		10	"	"	"	"	SM2320/SOP560
Fluoride	0.27		0.10	"	B4I0062	09/17/04	09/17/04	300.0/SOP 530
Chloride	110		5.0	"	"	"	09/17/04	300.0/SOP 530
Nitrite as N	ND	Q9, U	0.50	"	"	"	"	300.0/SOP 530
Bromide	0.63		0.10	"	"	"	09/17/04	300.0/SOP 530
Nitrate as N	17		0.10	"	"	"	"	300.0/SOP 530
o-Phosphate, as P	ND	U	1.0	"	"	"	"	300.0/SOP 530
Lab ID: 0409047-01RE1							Wate	er - Sampled: 09/16/04 08:0
Sample ID: OC2-MW7A-W-0-73							A	nions by EPA Method 300.
Sulfate	600		12	mg/L	B4I0070	09/17/04	09/20/04	300.0/SOP 530
Lab ID: 0409047-02							Wate	er - Sampled: 09/16/04 08:0
Sample ID: OC2-MW7A-W-1-74					Con	ventional Chen	nistry Paramet	ers by APHA/EPA Method
Total Organic Carbon	7.2		2.0	mg/L	B4I0125	09/27/04	09/27/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	U	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	7.4	C	2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10	"	B4I0127	09/27/04	09/27/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	D-10127	"	"	SM2320/SOP560
Bicarbonate Alkalinity	420	· ·	10	"	"	,,	"	SM2320/SOP560
Total Alkalinity	420		10	"	,,	"	"	SM2320/SOP560
Fluoride	0.24		0.10	"	B4I0062	09/17/04	09/17/04	300.0/SOP 530
Chloride	110		5.0	"	"	"	09/17/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	0.50	"	"	,,	"	300.0/SOP 530
Bromide	0.66	٧,,٠	0.10	"	"	,,	09/17/04	300.0/SOP 530
Nitrate as N	17		0.10	"	"	,,	"	300.0/SOP 530
o-Phosphate, as P	ND	U	1.0	"	"	"	"	300.0/SOP 530
Lab ID: 0409047-02RE1 Sample ID: OC2-MW7A-W-1-74								er - Sampled: 09/16/04 08:0 nions by EPA Method 300.
Sulfate	600		12	mg/L	B4I0070	09/17/04	09/20/04	300.0/SOP 530
Lab ID: 0409047-03							Wate	er - Sampled: 09/16/04 09:0
Sample ID: OC2-MW3A-W-0-75					Con	ventional Chen	nistry Paramet	ers by APHA/EPA Method
Total Organic Carbon	1.4	C1, J	2.0	mg/L	B4I0125	09/27/04	09/27/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	0.21	C1, J	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	2.4	~-, ~	2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
i nospiioi us, i otai	ND	U	10	mg/L	B4I0127	09/27/04	10,01/01	130001070



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens **Site Cleanup Section 4 SDG:** 04258B

**Project Number:** R04S85 **Reported:** 11/04/04 11:47 75 Hawthorne Street

Project: Omega Chemical OU2 September 2004

Sampling

San Francisco CA, 94105

Sample Results								
Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: 0409047-03							Wate	r - Sampled: 09/16/04 09:00
Sample ID: OC2-MW3A-W-0-75							Al	kalinity by Method SM2320
Carbonate Alkalinity	ND	U	10	mg/L	B4I0127	09/27/04	09/27/04	SM2320/SOP560
Bicarbonate Alkalinity	500		10	"	"	"	"	SM2320/SOP560
Total Alkalinity	500		10	"	"	"	"	SM2320/SOP560
Fluoride	0.32		0.10	"	B4I0062	09/17/04	09/17/04	300.0/SOP 530
Chloride	110		5.0	"	"	"	09/17/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	0.50	"	"	"	"	300.0/SOP 530
Bromide	0.32	,	0.10	"	"	"	09/17/04	300.0/SOP 530
Nitrate as N	5.5		0.10	"	"	"	"	300.0/SOP 530
o-Phosphate, as P	ND	U	1.0	"	"	"	"	300.0/SOP 530
Sulfate	200		2.5	"	"	"	09/17/04	300.0/SOP 530
Lab ID: 0409047-04							Wate	r - Sampled: 09/16/04 10:00
Sample ID: OC2-MW10A-W-0-76					Con	ventional Chen		ers by APHA/EPA Method
Sumple 12 v	1.1	C1 I	2.0	/T			-	-
Total Organic Carbon	1.1	C1, J	2.0	mg/L	B4I0125	09/27/04	09/27/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	"	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	U	0.30		B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	3.6		2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10		B4I0127	09/27/04	09/27/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	"	"	"	SM2320/SOP560
Bicarbonate Alkalinity	360		10	"	"	"	"	SM2320/SOP560
Total Alkalinity	360		10	"	"	"	"	SM2320/SOP560
Fluoride	0.28		0.10	"	B4I0062	09/17/04	09/17/04	300.0/SOP 530
Chloride	66		2.0	"	"	"	09/17/04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	0.20	"	"	"	"	300.0/SOP 530
Bromide	0.47		0.10	"	"	"	09/17/04	300.0/SOP 530
Nitrate as N	13		0.10	"	"	"	"	300.0/SOP 530
o-Phosphate, as P	ND	U	1.0	"	"	"	"	300.0/SOP 530
Sulfate	360		5.0	"	"	"	09/17/04	300.0/SOP 530
Lab ID: 0409047-05							Wate	r - Sampled: 09/16/04 10:45
Sample ID: OC2-MW11A-W-0-77					Con	ventional Chen	nistry Paramet	ers by APHA/EPA Methods
Total Organic Carbon	ND	U	2.0	mg/L	B4I0125	09/27/04	09/27/04	415.1/SOP 550
Ammonia as N	ND	U	0.30	mg/L	B4I0126	09/28/04	09/28/04	351.2/SOP590
Nitrogen, Total Kjeldahl	ND	U	0.30	"	B4I0158	09/30/04	10/01/04	351.2/SOP592
Perchlorate	5.0	Ü	2.0	ug/L	B4J0023	10/05/04	10/05/04	314.0/SOP531
Phosphorus, Total	ND	U	0.30	mg/L	B4I0159	09/30/04	10/01/04	365.4/SOP596
Hydroxide Alkalinity	ND	U	10		B4I0127	09/27/04	09/27/04	SM2320/SOP560
Carbonate Alkalinity	ND	U	10	"	D-10127	"	"	SM2320/SOP560
Bicarbonate Alkalinity	410	Ü	10	"	"	"	"	SM2320/SOP560
Total Alkalinity	410		10	"	"	"	"	SM2320/SOP560
Fluoride	0.21		0.10	"	B4I0062	09/17/04	09/17/04	300.0/SOP 530
	89		5.0	"	D410002	09/17/04	09/17/04	
Chloride		00.11		"	"	"	09/1//04	300.0/SOP 530
Nitrite as N	ND	<b>Q9,</b> U	0.50	,,		"		300.0/SOP 530
Bromide	0.47		0.10	**	"	"	09/17/04	300.0/SOP 530



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens Site Cleanup Section 4 SDG: 04258B

Project Number: R04S85 75 Hawthorne Street Reported: 11/04/04 11:47

Project: Omega Chemical OU2 September 2004 San Francisco CA, 94105

Sampling

Analyte		Result	Qualifiers / Comments	Quantitation Limit	Units	Batch	Prepared	Analyzed	Method
Lab ID: Sample ID: Nitrate as N o-Phosphate,		15 ND	U	0.10 1.0	mg/L	B4I0062	09/17/04		r - Sampled: 09/16/04 10:45 nions by EPA Method 300.0 300.0/SOP 530 300.0/SOP 530
Lab ID: Sample ID: Sulfate	0409047-05RE1	630		12	mg/L	B4I0070	09/17/04		r - Sampled: 09/16/04 10:45 nions by EPA Method 300.0 300.0/SOP 530



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens **Site Cleanup Section 4 SDG:** 04258B

**Project Number:** R04S85 **Reported:** 11/04/04 11:47 75 Hawthorne Street

Project: Omega Chemical OU2 September 2004 San Francisco CA, 94105 Sampling

<u>R9</u>

### **Quality Control**

Analyte	Result	Qualifiers /	Quantitation	Units	Spike	Source	%REC	%REC	RPD	RPD
Allarytt	Result	Comments	Limit	Onits	Level	Result	70KEC	Limits		Limit
B I B I B I I O I I I I I I I I I I I I							Amiona	by EPA Meth	red & Analyz	
Batch B4I0044 General Inorganic -							Allions	by EFA Meur	ou 300.0 - Qi	ianty Contro
Anions										
Blank (B4I0044-BLK1)	NID		0.10	/T						
Fluoride	ND	U	0.10	mg/L						
Chloride	ND	U	1.0	"						
Nitrite as N	ND	U	0.10	"						
Bromide	ND	U	0.10	"						
Nitrate as N	ND	U	0.10	"						
o-Phosphate, as P	ND	U	1.0	"						
Sulfate	ND	U	0.50							
Blank (B4I0044-BLK2)										
Fluoride	ND	U	0.10	mg/L						
Chloride	ND	U	1.0	"						
Nitrite as N	ND	U	0.10	"						
Bromide	ND	U	0.10	"						
Nitrate as N	ND	U	0.10	"						
o-Phosphate, as P	ND	U	1.0	"						
Sulfate	ND	U	0.50	"						
LCS (B4I0044-BS1)										
Fluoride	4.7			mg/L	5.00		94	90-110		
Chloride	9.4			"	9.92		95	90-110		
Nitrite as N	4.8			"	5.00		96	90-110		
Bromide	4.9			"	4.98		98	90-110		
Nitrate as N	4.8			"	4.98		96	90-110		
o-Phosphate, as P	9.5			"	9.96		95	90-110		
Sulfate	9.7			"	9.96		97	90-110		
LCS (B4I0044-BS2)										
Fluoride	4.7			mg/L	5.00		94	90-110		
Chloride	9.4			"	9.92		95	90-110		
Nitrite as N	4.8			"	5.00		96	90-110		
Bromide	4.9			"	4.98		98	90-110		
Nitrate as N	4.8			"	4.98		96	90-110		
o-Phosphate, as P	9.7			"	9.96		97	90-110		
Sulfate	9.7			"	9.96		97	90-110		
Duplicate (B4I0044-DUP1)	Source: 04	09032-02								
Chloride	73	0,000 00	10	mg/L		73			0	20
Sulfate	430		5.0	mg/L		430			0	20
		00022 02	3.0			450			-	20
Matrix Spike (B4I0044-MS1)	Source: 04	U7U3Z-UZ	0.10	/T	E 0.1	0.22	0.7	70.120		
Fluoride	4.7		0.10	mg/L	5.01	0.32	87	70-130		
Bromide	5.1		0.10	"	4.98	0.51	92	70-130		
Nitrate as N	14		0.10		4.98	9.9	82	70-130		
o-Phosphate, as P	11		1.0	"	9.95	ND	111	70-130		
Matrix Spike (B4I0044-MS2)	Source: 04	09032-02								
Nitrite as N	52		1.0	mg/L	50.0	ND	104	70-130		
Matrix Spike Dup (B4I0044-MSD1)	Source: 04	09032-02								
Fluoride	4.9		0.10	mg/L	5.01	0.32	91	70-130	4	20



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens Site Cleanup Section 4 SDG: 04258B

Project Number: R04S85 75 Hawthorne Street Reported: 11/04/04 11:47

Project: Omega Chemical OU2 September 2004 San Francisco CA, 94105

Sampling

#### **Quality Control**

Analyte	Result	Qualifiers /	Quantitation	Units	Spike	Source	%REC	%REC	RPD	RPD
. many co	Tresuit	Comments	Limit		Level	Result	707620	Limits	red & Analyz	Limit
Batch B4I0044 General Inorganic -							Anions	by EPA Meth	-	
Anions							11110110	0, 2111	o <b>a</b> 500.0	aurry Corn
Matrix Spike Dup (B4I0044-MSD1)	Source: 04	09032-02								
Bromide	5.2		0.10	"	4.98	0.51	94	70-130	2	20
Nitrate as N	14		0.10	"	4.98	9.9	82	70-130	0	20
o-Phosphate, as P	11		1.0	"	9.95	ND	111	70-130	0	20
Matrix Spike Dup (B4I0044-MSD2)	Source: 04	09032-02								
Nitrite as N	52	0,002 02	1.0	mg/L	50.0	ND	104	70-130	0	20
			1.0	mg/L		.,,,	10.		red & Analyz	
Batch B410050 General Inorganic -							Anions	by EPA Meth	-	
Anions							711110115	by Elitimeth	o <b>u</b> 300.0 Q	uunty conti
Amons Blank (B410050-BLK1)										
Fluoride	ND	U	0.10	mg/L						
Chloride	ND	U	1.0	mg/L						
Nitrite as N	ND	U	0.10	"						
Bromide	ND	U	0.10	"						
Nitrate as N	ND	U	0.10	"						
o-Phosphate, as P	ND	U	1.0	"						
Sulfate	ND	U	0.50	"						
LCS (B4I0050-BS1)										
Fluoride	4.8			mg/L	5.00		96	90-110		
Chloride	9.7			mg/L	9.92		98	90-110		
Nitrite as N	4.9			"	5.00		98	90-110		
Bromide	5.0			"	4.98		100	90-110		
Nitrate as N	4.9			"	4.98		98	90-110		
o-Phosphate, as P	10			"	9.96		100	90-110		
Sulfate	9.9			"	9.96		99	90-110		
					7.70				red & Analyz	red: 09/16/0
Batch B4I0052 General Inorganic -							Anions	by EPA Meth	-	
Anions								.,		,
Blank (B4I0052-BLK1)										
Fluoride	ND	U	0.10	mg/L						
Chloride	ND	U	1.0	ıı,						
Nitrite as N	ND	U	0.10	"						
Bromide	ND	U	0.10	"						
Nitrate as N	ND	U	0.10	"						
o-Phosphate, as P	ND	U	1.0	"						
Sulfate	ND	U	0.50	"						
LCS (B4I0052-BS1)										
Fluoride	4.9			mg/L	5.00		98	90-110		
Chloride	9.9			mg/L	9.92		100	90-110		
Nitrite as N	5.0			"	5.00		100	90-110		
Bromide	5.1			"	4.98		102	90-110		
Nitrate as N	5.0			"	4.98		100	90-110		
o-Phosphate, as P	10			"	9.96		100	90-110		
Sulfate	10			"	9.96		100	90-110		
Dunlicate (R4I0052-DIJP1)	Source: 04	09040 02					-	-		

**Duplicate (B4I0052-DUP1)** 

Source: 0409040-02



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens **Site Cleanup Section 4 SDG:** 04258B

Project Number: R04S85 **Reported:** 11/04/04 11:47 75 Hawthorne Street

Project: Omega Chemical OU2 September 2004 San Francisco CA, 94105

Sampling

#### **Quality Control**

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
									ed & Analyz	
Batch B4I0052 General Inorganic -							Anions	by EPA Metho	od 300.0 - Qu	ality Contro
Anions										
Duplicate (B4I0052-DUP1)	Source: 040	09040-02								
Chloride	110		10	mg/L		110			0	20
Sulfate	440		5.0	"		440			0	20
Matrix Spike (B4I0052-MS1)	Source: 040	09040-02								
Fluoride	6.6		0.11	mg/L	5.49	0.28	115	70-130		
Bromide	6.6		0.11	"	5.48	0.35	114	70-130		
Nitrate as N	18		0.11	"	5.47	12	110	70-130		
o-Phosphate, as P	13		1.1	"	10.9	ND	119	70-130		
Matrix Spike (B4I0052-MS2)	Source: 040	09040-02								
Nitrite as N	52		1.0	mg/L	50.0	ND	104	70-130		
Matrix Spike Dup (B4I0052-MSD1)	Source: 040	09040-02		-						
Fluoride	6.2		0.11	mg/L	5.49	0.28	108	70-130	6	20
Bromide	6.3		0.11	"	5.48	0.35	109	70-130	5	20
Nitrate as N	18		0.11	,,	5.47	12	110	70-130	0	20
o-Phosphate, as P	13		1.1	,,	10.9	ND	119	70-130	0	20
Matrix Spike Dup (B4I0052-MSD2)	Source: 040	09040-02						7		
Nitrite as N	56	07040-02	1.0	mg/L	50.0	ND	112	70-130	7	20
Nume as iv	- 50		1.0	mg/L	30.0	ND	112			
D (   D (100/2)   C     11							Aniona		ed & Analyz	
Batch B4I0062 General Inorganic -							Allions	by EPA Metho	ou 300.0 - Qu	ianty Conno
Anions										
Blank (B4I0062-BLK1)	ND		0.10	σ.						
Fluoride	ND	U	0.10	mg/L						
Fluoride Chloride	ND	U	1.0	"						
Fluoride Chloride Nitrite as N	ND ND	U U	1.0 0.10	"						
Fluoride Chloride Nitrite as N Bromide	ND ND ND	U U U	1.0 0.10 0.10	"						
Fluoride Chloride Nitrite as N Bromide Nitrate as N	ND ND ND ND	U U U	1.0 0.10 0.10 0.10	"						
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P	ND ND ND ND	U U U U	1.0 0.10 0.10 0.10 1.0	" " " " " " " " " " " " " " " " " " " "						
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate	ND ND ND ND	U U U	1.0 0.10 0.10 0.10	"						
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate LCS (B410062-BS1)	ND ND ND ND ND	U U U U	1.0 0.10 0.10 0.10 1.0	" " " " " " " " " " " " " " " " " " " "						
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate LCS (B4I0062-BS1) Fluoride	ND ND ND ND ND ND	U U U U	1.0 0.10 0.10 0.10 1.0	"" " " " " mg/L	5.00		96	90-110		
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate  LCS (B410062-BS1) Fluoride Chloride	ND ND ND ND ND ND ND	U U U U	1.0 0.10 0.10 0.10 1.0	" " " " " mg/L "	9.92		97	90-110		
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate  LCS (B410062-BS1) Fluoride Chloride Nitrite as N	ND ND ND ND ND ND ND	U U U U	1.0 0.10 0.10 0.10 1.0	" " " " mg/L " "	9.92 5.00		97 98	90-110 90-110		
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate LCS (B4I0062-BS1) Fluoride Chloride Nitrite as N Bromide	ND ND ND ND ND ND 4.8 9.6 4.9	U U U U	1.0 0.10 0.10 0.10 1.0	mg/L	9.92 5.00 4.98		97 98 98	90-110 90-110 90-110		
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate LCS (B4I0062-BS1) Fluoride Chloride Nitrite as N Bromide Nitrate as N	ND ND ND ND ND ND 4.8 9.6 4.9 4.9	U U U U	1.0 0.10 0.10 0.10 1.0	mg/L	9.92 5.00 4.98 4.98		97 98 98 98	90-110 90-110 90-110 90-110		
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate LCS (B410062-BS1) Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P	ND ND ND ND ND ND 4.8 9.6 4.9 4.9 4.9 9.9	U U U U	1.0 0.10 0.10 0.10 1.0	mg/L	9.92 5.00 4.98 4.98 9.96		97 98 98 98 99	90-110 90-110 90-110 90-110 90-110		
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate LCS (B4I0062-BS1) Fluoride Chloride Nitrite as N Bromide Nitrate as N	ND ND ND ND ND ND 4.8 9.6 4.9 4.9	U U U U	1.0 0.10 0.10 0.10 1.0	mg/L	9.92 5.00 4.98 4.98		97 98 98 98	90-110 90-110 90-110 90-110		
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate LCS (B410062-BS1) Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P	ND ND ND ND ND ND 4.8 9.6 4.9 4.9 4.9 9.9	U U U U	1.0 0.10 0.10 0.10 1.0	mg/L	9.92 5.00 4.98 4.98 9.96		97 98 98 98 99 99	90-110 90-110 90-110 90-110 90-110 90-110	ed & Analyz d 300.0 - Qu	
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate LCS (B410062-BS1) Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate	ND ND ND ND ND ND 4.8 9.6 4.9 4.9 4.9 9.9	U U U U	1.0 0.10 0.10 0.10 1.0	mg/L	9.92 5.00 4.98 4.98 9.96		97 98 98 98 99 99	90-110 90-110 90-110 90-110 90-110 90-110	-	
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate  LCS (B410062-BS1) Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate  Batch B410070 General Inorganic -	ND ND ND ND ND ND 4.8 9.6 4.9 4.9 4.9 9.9	U U U U	1.0 0.10 0.10 0.10 1.0	mg/L	9.92 5.00 4.98 4.98 9.96		97 98 98 98 99 99	90-110 90-110 90-110 90-110 90-110 90-110	-	
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate  LCS (B410062-BS1) Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate  Batch B410070 General Inorganic - Anions	ND ND ND ND ND ND 4.8 9.6 4.9 4.9 4.9 9.9	U U U U	1.0 0.10 0.10 0.10 1.0	mg/L	9.92 5.00 4.98 4.98 9.96		97 98 98 98 99 99	90-110 90-110 90-110 90-110 90-110 90-110	-	
Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate  LCS (B410062-BS1) Fluoride Chloride Nitrite as N Bromide Nitrate as N o-Phosphate, as P Sulfate  Batch B410070 General Inorganic - Anions Blank (B410070-BLK1)	ND ND ND ND ND ND 4.8 9.6 4.9 4.9 4.9 9.9 9.9	U U U U U	1.0 0.10 0.10 0.10 1.0 0.50	mg/L	9.92 5.00 4.98 4.98 9.96		97 98 98 98 99 99	90-110 90-110 90-110 90-110 90-110 90-110	-	



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens Site Cleanup Section 4 SDG: 04258B

Project Number: R04S85 75 Hawthorne Street Reported: 11/04/04 11:47

Project: Omega Chemical OU2 September 2004 San Francisco CA, 94105

Sampling

#### **Quality Control**

Analyte	Result	Qualifiers /	Quantitation	Units	Spike	Source	%REC	%REC	RPD	RPD
Maryte	Result	Comments	Limit	Omts	Level	Result	70KLC	Limits		Limit
Potch D410002 Conord Incurrent							Alkalin	rrepa ity by Method	red & Analyz	
Batch B4I0092 General Inorganic -							Aikaiiii	ity by Mctilou	31V12320 - QI	uanty Conti
Alkalinity Blank (B410092-BLK1)										
Hydroxide Alkalinity	ND	U	10	mg/L						
Carbonate Alkalinity	ND	U	10	"						
Bicarbonate Alkalinity	ND	U	10	"						
Total Alkalinity	ND	U	10	"						
LCS (B4I0092-BS1)										
Total Alkalinity	110			mg/L	108		102	85-115		
LCS (B4I0092-BS2)										
Total Alkalinity	9.1	C1, J	10	mg/L	10.0		91	85-115		
								Prepa	red & Analyz	ed: 09/27/0
Batch B4I0125 General Inorganic -					Conventiona	al Chemistry F	arameters by	y APHA/EPA	Methods - Qu	uality Contro
Carbon, Total Organic Blank (B4I0125-BLK1)										
Total Organic Carbon	ND	U	2.0	mg/L						
LCS (B4I0125-BS1)										
Total Organic Carbon	49		2.0	mg/L	50.0		98	90-110		
Matrix Spike (B4I0125-MS1)	Source: 04	09040-02								
Total Organic Carbon	32	Q4	2.0	mg/L	25.0	ND	128	75-125		
Matrix Spike (B4I0125-MS2)	Source: 04	09047-02								
Total Organic Carbon	30		2.0	mg/L	25.0	7.2	91	75-125		
Matrix Spike Dup (B4I0125-MSD1)	Source: 04	09040-02								
Total Organic Carbon	31		2.0	mg/L	25.0	ND	124	75-125	3	20
Matrix Spike Dup (B4I0125-MSD2)	Source: 04	09047-02								
Total Organic Carbon	28		2.0	mg/L	25.0	7.2	83	75-125	7	20
								Prepa	red & Analyz	ed: 09/28/04
Batch B4I0126 General Inorganic -					Conventiona	al Chemistry F	arameters by	y APHA/EPA	Methods - Qu	uality Contro
Nitrogen, Ammonia										
Blank (B4I0126-BLK1)										
Ammonia as N	ND	U	0.30	mg/L						
LCS (B4I0126-BS1)										
Ammonia as N	5.0		0.30	mg/L	5.00		100	90-110		
Matrix Spike (B4I0126-MS1)	Source: 04	09032-01								
Ammonia as N	2.1		0.30	mg/L	2.00	ND	105	75-125		
Matrix Spike (B4I0126-MS2)	Source: 04	09040-02								
Ammonia as N	2.2		0.30	mg/L	2.00	ND	110	75-125		
Matrix Spike Dup (B4I0126-MSD1)	Source: 04	09032-01								
Ammonia as N	2.2		0.30	mg/L	2.00	ND	110	75-125	5	20
Matrix Spike Dup (B4I0126-MSD2)	Source: 04	09040-02								
Ammonia as N	2.1									20

Prepared & Analyzed: 09/27/04

Alkalinity by Method SM2320 - Quality Control

Batch B4I0127 - - General Inorganic -

**Alkalinity** 

Blank (B4I0127-BLK1)



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens Site Cleanup Section 4 SDG: 04258B

Project Number: R04S85 75 Hawthorne Street Reported: 11/04/04 11:47

Project: Omega Chemical OU2 September 2004 San Francisco CA, 94105

Sampling

#### **Quality Control**

Analyte	Result	Qualifiers / Comments	Quantitation Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
		Comments	Lillit		Level	Result			red & Analyz	
Batch B4I0127 General Inorganic -							Alkalin	ity by Method	SM2320 - Q	uality Conti
Alkalinity										
Blank (B4I0127-BLK1)										
Hydroxide Alkalinity	ND	U	10	mg/L						
Carbonate Alkalinity	ND	U	10	"						
Bicarbonate Alkalinity	ND	U	10	"						
Total Alkalinity	ND	U	10	"						
LCS (B4I0127-BS1)										
Total Alkalinity	110			mg/L	108		102	85-115		
LCS (B4I0127-BS2)										
Total Alkalinity	9.1	C1, J	10	mg/L	10.0		91	85-115		
Duplicate (B4I0127-DUP1)	Source: 04	109040-02								
Hydroxide Alkalinity	ND	U	10	mg/L		ND				20
Carbonate Alkalinity	ND	U	10	"		ND				20
Bicarbonate Alkalinity	380		10	"		380			0	20
Total Alkalinity	380		10	"		380			0	20
								Prepared: 09/2	30/04 Analyz	red: 10/01/0
Batch B4I0158 - 351,2/365.4 TKN/P -					Conventiona	al Chemistry I		y APHA/EPA	-	
Nitrogen, Total Kjeldahl								,		
Blank (B4I0158-BLK1)										
Nitrogen, Total Kjeldahl	ND	U	0.30	mg/L						
LCS (B4I0158-BS1)										
Nitrogen, Total Kjeldahl	8.3		0.30	mg/L	8.00		104	90-110		
		100022 01	0.30	Ilig/L	0.00		104	<b>70-</b> 110		
Matrix Spike (B4I0158-MS1)	Source: 04	109032-01	0.20	/T	2.00	NID	0.5	75 105		
Nitrogen, Total Kjeldahl	1.7		0.30	mg/L	2.00	ND	85	75-125		
Matrix Spike (B4I0158-MS2)	Source: 04	109040-02								
Nitrogen, Total Kjeldahl	1.9		0.30	mg/L	2.00	ND	95	75-125		
Matrix Spike Dup (B4I0158-MSD1)	Source: 04	109032-01								
Nitrogen, Total Kjeldahl	1.6		0.30	mg/L	2.00	ND	80	75-125	6	20
Matrix Spike Dup (B4I0158-MSD2)	Source: 04	109040-02								
Nitrogen, Total Kjeldahl	1.8		0.30	mg/L	2.00	ND	90	75-125	5	20
								Prepared: 09/	30/04 Analyz	red: 10/01/04
Batch B4I0159 - 351.2/365.4 TKN/P -					Conventiona	al Chemistry I	Parameters by	y APHA/EPA	Methods - Qu	uality Contro
Phosphorus, Total										
Blank (B410159-BLK1)										
Phosphorus, Total	ND	U	0.30	mg/L						
LCS (B4I0159-BS1)										
Phosphorus, Total	5.0		0.30	mg/L	5.00		100	90-110		
Matrix Spike (B4I0159-MS1)	Source: 04	109032-01								
Phosphorus, Total	2.0		0.30	mg/L	2.00	ND	100	75-125		
		100040 02	0.50	mg/L	2.00	ND	100	73-123		
Matrix Spike (B4I0159-MS2)	Source: 04	NU7U4U-U2	0.20	/r	2.00	MD	100	75 125		
Phosphorus, Total	2.0		0.30	mg/L	2.00	ND	100	75-125		
Matrix Spike Dup (B4I0159-MSD1)	Source: 04	109032-01								
Phosphorus, Total	2.0		0.30	mg/L	2.00	ND	100	75-125	0	20
Matrix Spike Dup (B4I0159-MSD2)	Source: 04	109040-02								



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens Site Cleanup Section 4 SDG: 04258B

Project Number: R04S85 75 Hawthorne Street Reported: 11/04/04 11:47

Project: Omega Chemical OU2 September 2004 San Francisco CA, 94105

Sampling

#### **Quality Control**

Analyte	Result	Qualifiers /	Quantitation	Units	Spike	Source	%REC	%REC	RPD	RPD
1 mary to	resuit	Comments	Limit	Cinto	Level	Result	7 OTCLE	Limits		Limit
D . I D. 110150 . 351 3/3/5 4 (TY/N/D					Gti	1 Ch:-t D	h	Prepared: 09/3		
Batch B4I0159 - 351.2/365.4 TKN/P -					Conventiona	ii Chemistry P	arameters o	y APHA/EPA	Methods - Qt	ianty Control
Phosphorus, Total										
Matrix Spike Dup (B4I0159-MSD2)	Source: 040	19040-02								
Phosphorus, Total	2.0		0.30	mg/L	2.00	ND	100	75-125	0	20
								Prepa	red & Analyz	ed: 10/05/04
Batch B4J0023 General Inorganic -					Conventiona	l Chemistry P	arameters b	y APHA/EPA	Methods - Qu	uality Control
Perchlorate										
Blank (B4J0023-BLK1)										
Perchlorate	ND	U	2.0	ug/L						
LCS (B4J0023-BS1)										
Perchlorate	10			ug/L	10.0		100	85-115		
Matrix Spike (B4J0023-MS2)	Source: 040	9040-02								
Perchlorate	14		2.0	ug/L	10.0	4.3	97	80-120		
Matrix Spike Dup (B4J0023-MSD2)	Source: 040	9040-02								
Perchlorate	14		2.0	ug/L	10.0	4.3	97	80-120	0	15
								Prepa	red & Analyz	ed: 10/05/04
Batch B4J0026 General Inorganic -					Conventiona	l Chemistry P	arameters b	y APHA/EPA	Methods - Qu	uality Control
Carbon, Total Organic										
Blank (B4J0026-BLK1)										
Total Organic Carbon	ND	U	2.0	mg/L						
LCS (B4J0026-BS1)										
Total Organic Carbon	51		2.0	mg/L	50.0		102	90-110		



1337 S. 46th Street, Building 201, Richmond, CA 94804 Phone:(510) 412-2300 Fax:(510) 412-2302

Project Manager: Chris Lichens Site Cleanup Section 4 SDG: 04258B

Project Number: R04S85 75 Hawthorne Street Reported: 11/04/04 11:47

Project: Omega Chemical OU2 September 2004 San Francisco CA, 94105

Sampling

#### **Qualifiers and Comments**

Q9 The quantitation limit was raised for this analyte due to interference from other analytes.

Q4 The matrix spike and/or matrix spike duplicate associated with this sample did not meet recovery criteria for this

analyte (see MS/MSD results for this batch in QC summary)

J The reported result for this analyte should be considered an estimated value.

C1 The reported concentration for this analyte is below the quantitation limit.

U Not Detected

NR Not Reported